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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/850,213	05/07/2001	Chikao Ikenaga	OPS Case 533	9610	
7:	590 02/15/2002				
FLYNN, THIEL, BOUTELL & TANIS, P.C. 2026 Rambling Road Kalamazoo, MI 49008-1699			EXAMINER		
			GREENE, PERSHELLE L		
			ART UNIT	PAPER NUMBER	
	•		2826		
			DATE MAIL ED. 02/16/2002	DATE MAIL ED. 02/15/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)					
Office Action Summary		09/850,213	IKENAGA ET AL.					
		Examiner	Art Unit					
		Pershelle Greene	2826					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
1)⊠	Responsive to communication(s) filed	on <i>07 May 2001</i> .						
2a)□								
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)🖾	4) Claim(s) 1-3 is/are pending in the application.							
4	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-3</u> is/are rejected.							
7)	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9)⊠ The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>07 May 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)⊠ None of:								
	1. Certified copies of the priority doc	cuments have been received.						
2. Certified copies of the priority documents have been received in Application No								
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
2) Notice	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO- nation Disclosure Statement(s) (PTO-1449) Paper	948) 5) Notice	iew Summary (PTO-413) Paper No(e of Informal Patent Application (PTO					

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Application/Control Number: 09/850,213

Art Unit: 2826

Serial Number: 09/850213 Attorney's Docket #: OPS Case 533

Filing Date: 05/07/2001; claimed foreign priority to 5/12/2000

Applicant: Ikenaga et al. Examiner: Pershelle Greene

DETAILED ACTION

Oath/Declaration

The Declaration is objected to because the title of the invention is not correct.

Appropriate correction is required.

Drawings

1. Figures 1 - 6 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

- 2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 3. The specification should be reviewed for spelling and grammatical errors.

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Claim Objections

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 5. Claims 1-2 are being rejected under 35 U.S.C. 102(a) as being clearly anticipated by Mclellan et al.

Claims 1-2 are product-by-process claims:

Note that a "product by process" claim is directed to the product per se, no matter how actually made, *In re Hirao*, 190 USPQ 15 at 17 (footnote 3). See also *In re Thorpe*, 227 USPQ 964, 966; *In re Luck*, 177 USPQ 523; *In re Fessmann*, 180 USPQ 324; *In re Avery*, 186 USPQ 161; *In re Wertheim*, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); and *In re Marosi* et al., 218 USPQ 289, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above case law makes clear. See also MPEP 2113.

Claims 1-2 does not distinguish over the Mclellan et al. references regardless of the process used to cut the semiconductor devices into individual semiconductor packages, because only the final product is relevant, and not the process of making such as *cutting into individual semiconductor packages*.

Mclellan et al. teaches the saw-singulated leadless plastic chip carrier. Mclellan et al. discloses a matrix of lead frames. The lead frames include die-attach pads that are suspended by tie bars, which are formed with leads. A semiconductor die is mounted on the die-attached pad. An encapsulation then seals the semiconductor die and the die-attached pad.

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Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claim 3 is being rejected under 35 U.S.C. 103(a) as being unpatentable over Mclellan et al. (U.S. patent # 6,229,200) in view of Ebihara (U.S. Patent # 5,753,535).

Claim 3 is being rejected for the same reasons as stated for claim 1. However, Mclellan fails to explicitly show the hollows formed from the lead frames. Ebihara shows the hollows formed from the division of the lead frames. Therefore, it would have been obvious to form the hollows of Ebihara with the structure of Mclellan. The formation of these hollows would allow for ease of cutting when dividing the lead frames

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pershelle Greene whose telephone number is 703-305-3870. The examiner can normally be reached on M-F 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 703-308-6601. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

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PLG February 7, 2002

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